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B8T TWE TWR T14E

(56) Documents Cited

US 4901892 A

US 3788549 A

(58) Field of Search

UK CL (Edition O) B8T TWC TWE TWQ TWR TWX

INT CL⁶ B65D 47/08 47/10 51/20 51/22

(54) **Plastic dispensing lid for a drinkable water jar**

(57) A plastic lid for a drinkable water jar comprises a lid body 1, an outlet 2, an outlet seal member 3 and an outlet plug 4. Said lid body 1, outlet 2, outlet seal member 3 and outlet plug 4 are integrally formed by a one piece moulding. A circular recess is formed on the upper part of the interior of said lid body, the width of said circular recess just fits the mouth of a water jar of large volume, enabling said lid to clip on the mouth of the water jar and preventing water in the jar from escaping. When water is required from the jar, the plug 4 is removed from the outlet and the jar turned upside down and placed onto a drinking device. An inlet tube in the drinking device breaks the outlet seal member 3 and allows water to enter the said device, now ready for dispensing. The advantages of the present invention are lower cost of production, easyness for the producer to clean and a tight seal water with the jar, ensuring thorough sterilization of said outlet.

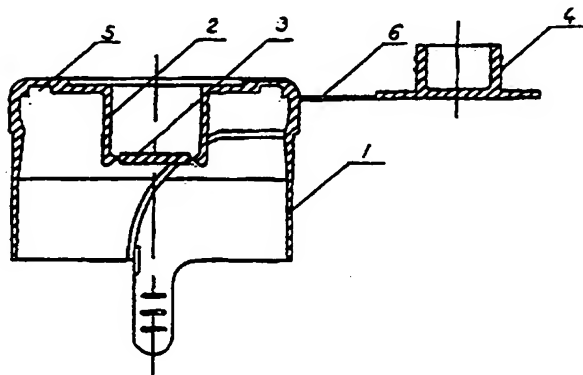


FIG. 1

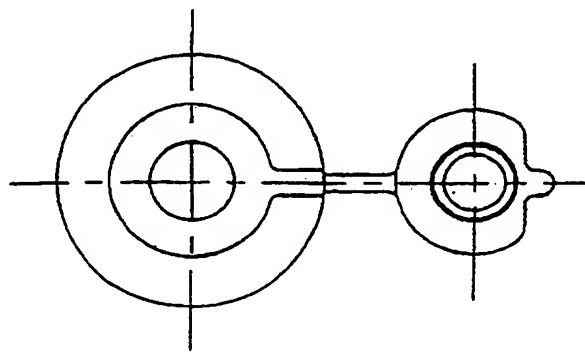


FIG. 4

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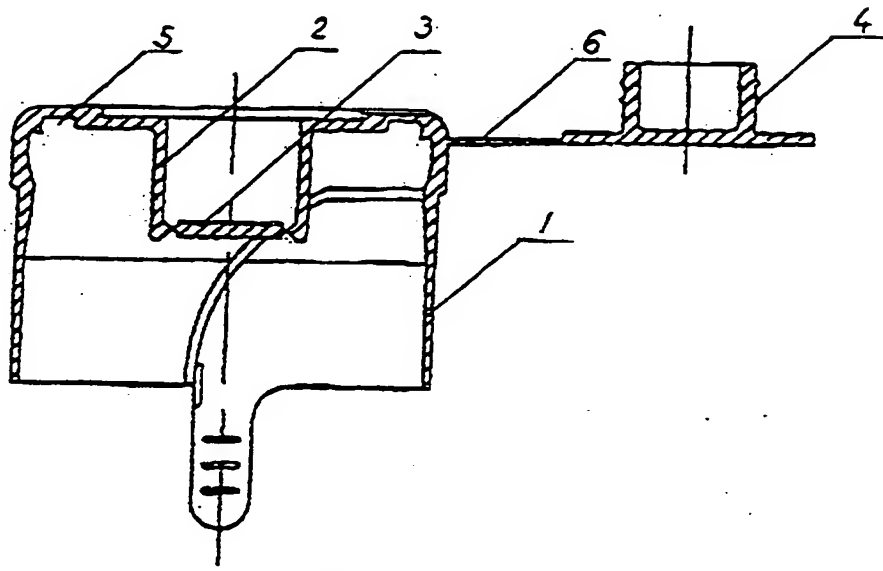


FIG. 1

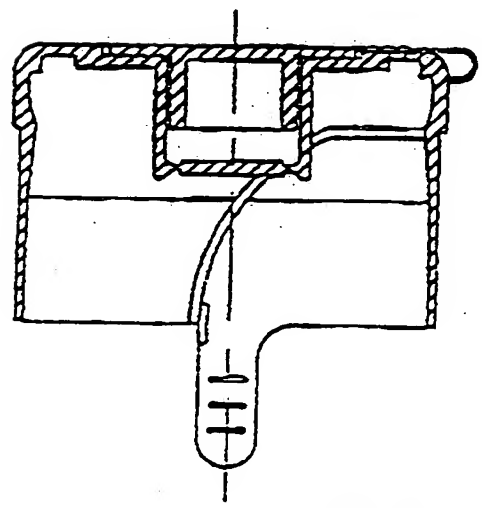


FIG. 2

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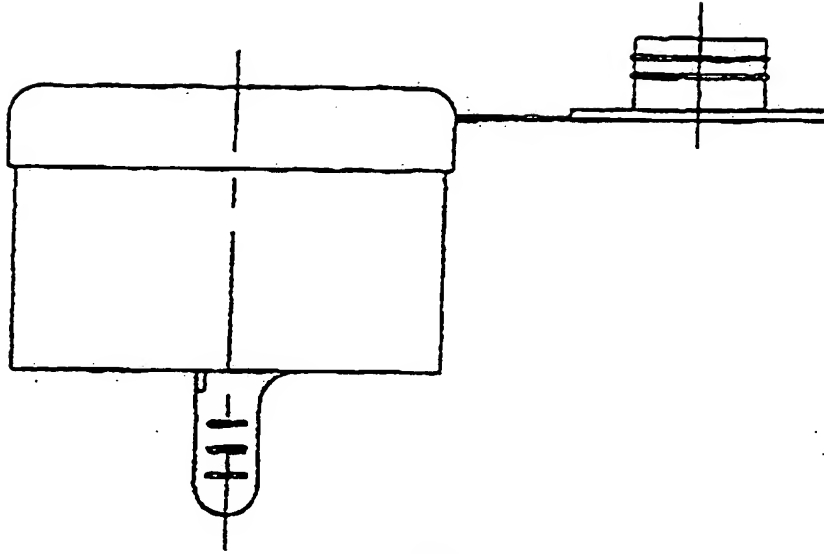


FIG. 3

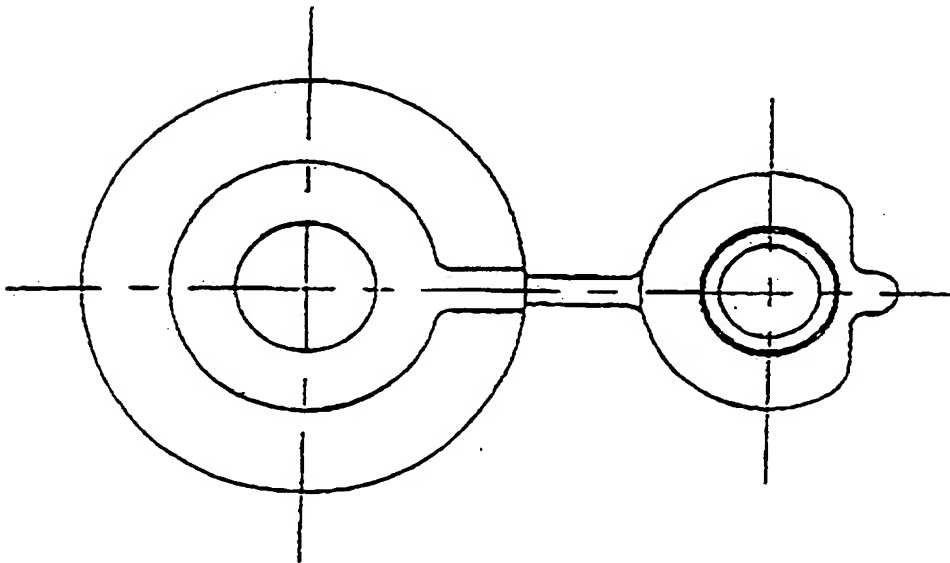


FIG. 4

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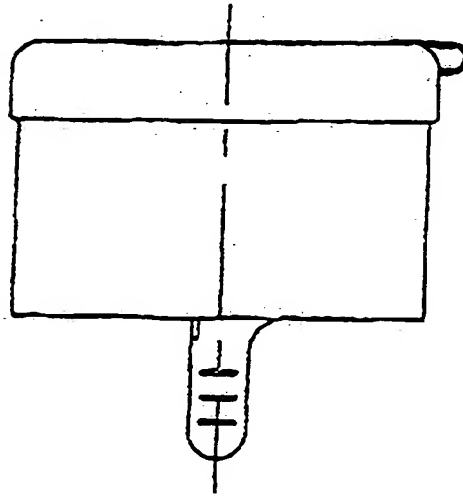


FIG. 5

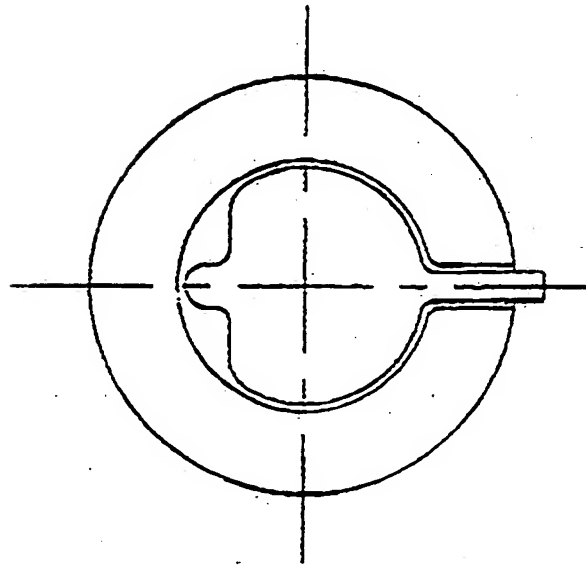


FIG. 6

New Plastic Lid for Drinkable Water Jar

The present invention is related to a new plastic lid for drinkable water jar which falls into the field of daily life goods.

The drinkable water jars of large volume for spring water or distilled water, such as 3-gallon jar and 5-gallon jar, are sold in present market, its plastic lid body and its plastic outlet plug in the middle of the plastic lid are moulded seperately. In use, the plastic lid is put to cover the water jar, outlet plug is inserted, then the lid is sealed by adhesive tape so as to seal outlet. In this operation, the outlet can not be sterilized thoroughly. In addition, a spacer should be put in between the lid and the mouth of the jar so that water can not escape from the jar during transportation.

The object of the present invention is to provide a new plastic lid for a drinkable water jar, of which the lid body and the outlet plug are formed by once-through moulding with low cost in production and ease in use, moreover, the lid can be sealed sterily.

The object of the present invention can be reached by the following means:

The lid comprises an lid body, a outlet, an outlet seal spacer and an outlet plug. The lid body, the outlet, the outlet seal spacer and the outlet plug are formed integrally by once-through moulding, the

plug is connected with the lid body by a plastic strip which can be bent so as to enable the insertion of the plug into the outlet of the lid, the lower end of the outlet is provided with a seal spacer, a circular recess is formed on the upper part of the lid body's interior, the width of the circular recess just fits the mouth of a water jar of large volume sold in present market, enabling the lid body to clip onto the mouth of the water jar, thus preventing water in the jar from escaping during transportation. Moulded jar lid is sterilized and then the outlet plug is inserted into the outlet, ensuring thorough sterile condition in the outlet before the seal spacer opens. When getting water from the jar, the plug is removed from the outlet, the jar is immediately put upside down onto a drinking device, an inlet tube in the drinking device then breaks the seal spacer, thus water entering into the drinking device.

Attached drawings are as follows:

Fig.1 is a longitudinal section of front view of the present invention;

Fig.2 is a section of front view when plug being inserted in outlet for the present invention;

Fig.3 is a front view of jar's profile according to the present invention;

Fig.4 is a vertical view of jar's profile according to the present invention;

Fig.5 is a front view of jar's profile when outlet plug is inserted in outlet according to the present invention;

Fig.6 is a vertical view of jar's profile when outlet plug is inserted in outlet according to the present invention.

The present invention will be better understood with the following embodiment and attached drawings.

The embodiment of the present invention comprises a lid body(1), outlet(2), outlet seal spacer(3), and outlet plug(4). Lid body(1), outlet(2), outlet seal spacer(3) and outlet plug(4) are formed integrally by once-through moulding, outlet plug(4) is connected with lid body(1) by a plastic strip which can be bent, thus enabling the insertion of outlet plug(4) into outlet(2) of lid body(1), lower end of outlet(2) is provided with a seal spacer(3), a circular recess(5) is formed on the upper part of the lid body's interior, the width of circular recess(5) just fits the mouth of water jar of large volume sold in present market, enabling lid body(1) to clip onto the mouth of water jar, thus preventing water in water jar from escaping during transportation. Moulded jar lid is sterilized and then outlet plug(4) is inserted into outlet(2), ensuring thorough sterile condition in outlet(2) before seal spacer(3) opens. When getting water from the jar, the plug is removed from the outlet, the jar is immediately put upside down onto a drinking device, an inlet tube in the drinking device then breaks the seal spacer, thus water entering into the drinking device.

The advantages of the present invention over the existing technology:

1. Lid body, outlet, outlet seal spacer and outlet plug of the present invention are formed integrally by once-through moulding, thus producing cost being lower than the separately moulded lid.

2. Present invention is easy to seal and to sterilize, providing no water leakage and fitting drinking devices sold in market.

Claims

1. A new plastic lid for drinkable water jar comprises a lid body(1), outlet(2), outlet seal spacer(3) and outlet plug(4), characterized in that lid body(1), outlet(2), outlet seal spacer(3) and outlet plug(4) are integrally formed, said outlet plug(4) being connected with said lid body(1) by a plastic strip(6), said plastic strip(6) being bent so as to enable the insertion of outlet plug(4) into outlet(2) of said lid body(1), the lower end of said outlet(2) being provided with seal spacer(3), a circular recess(5) being formed on the upper part of the interior of said lid body(1), the width of said circular recess(5) just fitting the mouth of a water jar of large volume.



Application No: GB 9601102.8
Claims searched: 1

Examiner: William Thomson
Date of search: 29 February 1996

Patents Act 1977
Search Report under Section 17

Databases searched:

UK Patent Office collections, including GB, EP, WO & US patent specifications, in:

UK Cl (Ed.O): B8T (TWC, TWE, TWQ, TWR, TWX)

Int Cl (Ed.6): B65D 47/08, 47/10, 51/20, 51/22

Other:

Documents considered to be relevant:

Category	Identity of document and relevant passage	Relevant to claims
X	US 4901892 (MAGNETA) Column 2, lines 17-54; column 3, lines 21-30; Figures 1-3	1
X	US 3788549 (FEDERAL TOOL & PLASTICS) Column 1, lines 41-62; Figures 1-4	1

X Document indicating lack of novelty or inventive step
Y Document indicating lack of inventive step if combined
with one or more other documents of same category.
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A Document indicating technological background and/or state of the art.
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